No.



9600232

THE UNITED STAYES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Stalof Meiball AB

Thereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR MORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE DVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT DEED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SEE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE OFF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

PEA, FIELD

'Grande'

In Vestimonn Merces, I have hereunto set my hand and caused the seal of the Hant Bariety Aratection Office to be affixed at the City of Washington, D.C. this thirtieth day of January, in the year of our Lord two thousand one.

Altest:

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. Include form number and date on U.S. DEPARTMENT OF AGRICULTURE	, an reproductions.		FORM APPROVED - OMB NO. 0581-
AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION	OFFICE	1374 13 0.3.0. 33287.	made in accordance with the Privacy A
APPLICATION FOR PLANT VARIETY PROTECTI	ON CERTIFICAT	Application is required in order	or to determine if a plant variety prote S.C. 24211. Information is held confidence
(Instructions and information collection burden state		The same of the sa	C.C. 2426).
NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR	3. VARIETY NAME
		EXPERIMENTAL NUMBER	
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. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and C	Country	5. TELEPHONE (include area code)	500 05500
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	Loganii	Marie Marie Marie Marie Marie	E DATE
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IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGAN	NIZATION (corporation, p	partnership, association, etc.1 (Common name)	C CERTIFICATION FEE:
_imited Company			115 200 00
IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	E DATE
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INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) at least 2,500 viable untreated seeds, or for tuber reproduced varieties verification that a viable fin the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in a public repository prior to issuance of a certificate; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.175 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 30 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Blvd., Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the Certificate.



ITSEM

- 16a. Give:
- the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 16b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 16e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employee of the breeder, the owner through purchase or inheritance, etc.
- 17. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labelled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See P.L. 103-349 for additional information.)
- 20. See Sections 41, 42, and 43 of the Act and Section 97.175 of the regulations for eligibility requirements.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing change of ownership or assignment is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Section 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: See Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington, DC 20260; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0581-0056), Washington, DC 20603.



Variety: Grande (SV C 40143) Pea

EXHIBIT A Revised November 12, 1997

Origin and Breeding:

The variety was developed at Svalöf Weibull AB, Sweden. This conventional leafed variety originates from a cross of Express x Bohatyr. The original cross was done in 1984. The breeding method was a pedigree method and the variety originates from a single plant selection in F_4 . Breeder seed was bulked in the F_9 generation. Selection criteria were early maturity, standability, and seed yield.

Statement of Uniformity and Stability:

The variety is uniform and stable. No variants have been observed. No offtypes have been observed.

Evidence of Uniformity and Stability:

Grande has been observed to be uniform and stable for at least three (3) generations.



Variety: Grande (SV C 40143) Pea

EXHIBIT B Revised November 12, 1997

Statement of Distinctness:

Of varieties know to us, Grande is most similar to the variety, "Express". Grande is distinct from Express in that it has taller plant height, and wider and longer stipules than Express, as evidenced by the attached ANOVA tables.

Characteristic (see ANOVA tables)	Year	Reps	Grande (SV C 40143)	Range	Express	Range
Plant Height	1996	20	65.7	(44 - 87)	50.00	(39 - 59)
	1997	20	70.59	(50.6 - 94.2)	46.12	(28.0 - 55.2)
Stipule Width (mm)	1996	10	2.37	(2.1 - 2.7)	2.29	(1.7 - 2.8)
	1997	20	2.60	(1.9 - 3.6)	2.13	(1.7 - 2.6)
Stipule Length (cm)	1996	10	4.19	(3.8 - 4.9)	3.71	(2.3 - 4.5)
3 ()	1997	20	5.26	(4.2 - 6.3)	4.21	(2.5 - 5.5)

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Svalof Weibull Seed Ltd.

ANALYSIS OF VARIANCE

PROC ACB

1996 + 1997 U.S. PVP STIPULE LENGTH ANOVA 11/13/97

Dependent variable: STIP_LTH

Source	df	SS	MS	F-value	Pr¢ F
Total	59	44.593			
ENTRY	1	11.180	11.180	19.01	0.0001
BLOC	9	4.601	0.511	0.87	0.5583
Residual	49	28.811	0.588		

Grand mean = 4.475 R-squared = 0.3539 C.V. = 17.14%

LSD for ENTRY = 0.3319 S.E.D. = 0.1980

t (a=0.05, 49 df) = 1.6765 MSE = 0.58799

ENTRY

Averages

Level --- Y --- Rank

1 4.91 1 GRANDE 2 4.04 2 EXPRESS

File: F:@AGB4@GRANDS67.DBF Memory: 126260 bytes free Time: 17:33:20

ANALYSIS OF VARIANCE

PROC ACB

1997 U.S. PVP STIPULE LENGTH ANOVA 11/13/97

Dependent variable: STIP_LTH

Source	df	SS	MS	F-value	Pr¢ F
Total	39	31.234			
ENTRY	1	11.130	11.130	19.70	0.0001
BLOC	9	3.721	0.413	0.73	0.6766
Residual	29	16.382	0.565		

Grand mean = 4.738 R-squared = 0.4755 C.V. = 15.86%

LSD for ENTRY = 0.4038 S.E.D. = 0.2377

t (a=0.05, 29 df) = 1.6991 MSE = 0.56491

ENTRY

Averages

Level --- Y --- Rank

5.26 1 GRANDE 4.21 2 EXPRESS

File: F:@AGB4@GRAND7.DBF Memory: 126308 bytes free Time: 17:02:15

ANALYSIS OF VARIANCE

PROC ACB

11/13/97

1996 U.S. PVP STIPULE LENGTH ANOVA

Dependent variable: STIP_LTH

Source	df	SS	MS	F-value	Pr¢ F
Total	19	5.090			
ENTRY	1	1.152	1.152	5.06	0.0510
BLOC	9	1.890	0.210	0.92	0.5466
Residual	9	2.048	0.228		

Grand mean = 3.950 R-squared = 0.5976 C.V. = 12.08%

LSD for ENTRY = 0.3911 S.E.D. = 0.2133

t (a=0.05, 9 df) = 1.8331 MSE = 0.22756

ENTRY

Averages

Level --- Y --- Rank

4.19 1 GRANDE 3.71 2 EXPRESS

File: F:@AGB4@GRANDSL6.DBF Memory: 124742 bytes free Time: 17:11:18

ANALYSIS OF VARIANCE

PROC ACB

11/13/97

1996 + 1997 U.S. PVP STIPULE WIDTH ANOVA

Dependent variable: STIP_WDTH

Source	df	SS	MS	F-value	Pr¢ F
Total	59	8.570			
ENTRY	1	1.700	1.700	14.20	0.0004
BLOC	9	1.001	0.111	0.93	0.5086
Residual	49	5.868	0.120		

Grand mean = 2.352

LSD for ENTRY = 0.1498

S.E.D. = 0.0894

t (a=0.05, 49 df) = 1.6765 MSE = 0.11976

ENTRY

Averages

Level --- Y --- Rank

2.52 1 GRANDE 2.18 2 EXPRESS

ANALYSIS OF VARIANCE

PROC ACB

11/13/97

1997 U.S. PVP STIPULE WIDTH ANOVA

Dependent variable: STIP_WDTH

Source	df	SS	MS	F-value	Pr¢ F
Total	39	7.194			
ENTRY	1	2.162	2.162	15.62	0.0005
BLOC	9	1.016	0.113	0.82	0.6064
Residual	29	4.015	0.138		

Grand mean = 2.362 R-squared = 0.4418

C.V. = 15.75%

LSD for ENTRY = 0.1999 S.E.D. = 0.1177

t (a=0.05, 29 df) = 1.6991 MSE = 0.13846

ENTRY

Averages

Level --- Y --- Rank

2.60 1 GRANDE

2.13 2 EXPRESS

File: F:@AGB4@GRAND7.DBF Memory: 126308 bytes free Time: 17:03:24

ANALYSIS OF VARIANCE

PROC ACB

11/13/97

1996 U.S. PVP STIPULE WIDTH ANOVA

Dependent variable: STIP_WDTH

Source	df	SS	MS	F-value	Pr¢ F
Total	19	1.362			
ENTRY	1	0.032	0.032	0.71	0.4226
BLOC	9	0.922	0.102	2.26	0.1202
Residual	9	0.408	0.045		

Grand mean = 2.330 R-squared = 0.7004 C.V. = 9.14%

LSD for ENTRY = 0.1745 S.E.D. = 0.0952

t (a=0.05, 9 df) = 1.8331 MSE = 0.04533

ENTRY

Averages

Level --- Y --- Rank

2.37 1 GRANDE 2.29 2 EXPRESS

File: F:@AGB4@GRANDSL6.DBF Memory: 124742 bytes free Time: 17:12:19

ANALYSIS OF VARIANCE

PROC ACB

11/13/97

1996 + 1997 U.S. PVP PLANT HEIGHT ANOVA

Dependent variable: VINE_HGT

Source	df	SS	MS	F-value	Pr¢ F
Total	79	15188.099			
ENTRY	1	8072.162	8072.162	95.44	0.0000
BLOC	9	1279.740	142.193	1.68	0.1103
Residual	69	5836.198	84.583		

Grand mean = 58.102 R-squared = 0.6157 C.V. = 15.83%

LSD for ENTRY = 3.4287 S.E.D. = 2.0565

t (a=0.05, 69 df) = 1.6672 MSE = 84.58258

ENTRY

Averages

Level --- Y --- Rank

68.15 1 GRANDE 48.06 2 EXPRESS

File: F:®AGB4®GRAND67.DBF Memory: 126546 bytes free Time: 16:55:04

ANALYSIS OF VARIANCE

PROC ACB

11/13/97

1997 U.S. PVP PLANT HEIGHT ANOVA

Dependent variable: VINE_HGT

Source	df	SS	MS	F-value	Pr¢ F
Total	39	9174.899			
ENTRY	1	5992.704	5992.704	66.44	0.0000
BLOC	9	566.294	62.922	0.70	0.7056
Residual	29	2615.901	90.203		

Grand mean = 58.355

LSD for ENTRY = 5.1031 S.E.D. = 3.0034

t (a=0.05, 29 df) = 1.6991 MSE = 90.20348

ENTRY

Averages

Level --- Y --- Rank

70.59 1 GRANDE

46.12 2 EXPRESS

File: F:@AGB4@GRAND7.DBF Memory: 124498 bytes free Time: 16:33:20

Juli only 9600232

AGROBASE

ANALYSIS OF VARIANCE

PROC ACB

11/13/97

1996 U.S. PVP PLANT HEIGHT ANOVA

Dependent variable: VINE_HGT

Source	df	SS	MS	F-value	Pr¢ F
Total	39	6008.100			
ENTRY	1	2464.900	2464.900	29.74	0.0000
BLOC	9	1139.600	126.622	1.53	0.1851
Residual	29	2403.600	82.883		

Grand mean = 57.850 R-squared = 0.5999 C.V. = 15.74%

LSD for ENTRY = 4.8917 S.E.D. = 2.8789

t (a=0.05, 29 df) = 1.6991 MSE = 82.88276

ENTRY

Averages

Level --- Y --- Rank

65.70 1 GRANDE 2 50.00 2 EXPRESS

File: F:@AGB4@GRAND6.DBF Memory: 123822 bytes free Time: 14:32:54

FORM APPROVED: OMB NO. 0581-0055

EXHIBIT C (Pca)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705
OBJECTIVE DESCRIPTION OF VARIETY

NAME OF APPLICANTIST PEA (PISUM SATIVE	VARIETY NAME OR TEMPORARY
Svalöf Weibull AB	DESIGNATION
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	GRANDE
S-268 81	FOR OFFICIAL USE ONLY
Svalöv, SWEDEN	PVPO NUMBER
	46M722
Place the appropriate number that describes the varietal character in the l	poxes below.
Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either	99 or less or 9 or less.
I. TYPE:	
2 FIELD 3 - EDIBLE PODDED	
MATURITY:	
Node number of first bloom: 1 0 6 No. of days t	O Drocessing
	o processing Heat Units
No. of days Eurlier than	2 = THOMAS LAXTON WR 3 = LITTLE MARVEL
	2 = THOMAS LAXTON WR 3 = LITTLE MARVEL
No. of days Later than	DERMAN WR 6 = AUSTRIAN WINTER
PLANT HEIGHT:	
1 0 0 CM. HIGH	
Cm. Shorter than	2 = THOMAS LAXTON WR 3 = LITTLE MARVEL
	2 = THOMAS LAXTON WR 3 = LITTLE MARVEL
Cm. Taller than	DERMAN WR 6 = AUSTRIAN WINTER
VINE:	TO SOUTH WINTER
2 Habit: 1 = DETERMINATE 2 = INDETERMINATE Sto	1 = SLIM (Alaska) 3 = HEAVY (Alderman)
Sto	ckiness: 2 = MEDIUM (Thomas Laxton WR)
1 Branching: 1 = NONE (Alaska) 2 - 1-2 BRANCHES (Little Marvel)	2 - MORE THAN 2 PRANCUES IS
The britain state of the marver	3 = MORE THAN 2 BRANCHES (Dwarf Gray Sugar)
1 Internodes: 1 = STRAIGHT 2 = ZIG ZAG	NUMBER OF MODES
	NUMBER OF NODES
LEAFLETS:	
1 = LIGHT GREEN (Alaska WR) 2 = MED. GREEN (Thomas 2 Color: 4 = OTHER (Specify)	Laxton WR) 3 = DARK GREEN (Alderman)
2 Color: 4 = OTHER (Specify)	
2 Wax: 1 - NONE 2 = LIGHT 3 = MEDIUM 2 1=	
2 Wax 1 NONE 2 = LIGHT 3 = MEDIUM 2 1 =	NOT MARBLED 2 = MARBLED (Alaska)
Number of leaflet pairs: 1 = NOT PAIRED 2 = ONE 3 = TW	O 4 = THREE OR MORE
STIPULES:	
2 1 = LACKING 2 = PRESENT 2 1 =	NOT CLASPING 2 = CLASPING
2 1 = NOT MARBLED 2 = MARBLED 3 Size	(Compared with leaflets):
	3 = LARGER
2 Color (Compared with leaflets): 1 = LIGHTER 2 = SAME 3 =	DARKER
FLOWER COLOR:	STATE OF THE PROPERTY OF THE PARTY OF THE PA
1 VENATION 1 STANDARD 1 WING 1 KEEL	1 - WHITE 2 = GREENISH 3 = LAVEND
T VENATION T STANDARD T WING T KEEL	4 . OULTE 2 - HED
	6 - OTHER (Specify)

8. PODS:			A STATE OF S
	AIGHT 2 = SLIGHTLY CURVED VED	2 End: 1 - POINTED (Alder	man) 2 = BLUNT (Alaska)
2 Color: 4 = OTH	(T GREEN (Alaska WR) 2 = MED ER (Specify)	IUM GREEN 3 - DARK GREEN (AId	
2 Surface: 1 = SM	MOOTH 2 = ROUGH	2 Surface: 1 = SHINY	2 - DULL
	NGLE 2 = DOUBLE 3 = SI OUBLE & TRIPLE 6 = TRIPLE	NGLE AND DOUBLE 4 = SINGLE, D 7 = OTHER (Specify)	OOUBLE, & TRIPEE
0 7 CM. LENGTH		16 MM. WIDTH (Between suture:	NO. SEEDS PER POD
9. SEEDS (95 100 Tenderon	neter):		
[1] Color: 1 =	LIGHT GREEN 2 = GREEN	3 = DARK GREEN 4 = OTHER (Spec	ify)
Serve: '%	2 3 4	5 B 7	8 AVERAGE
and the state of t			
4 Shape: 1 - FLA	ATTENED 2 = ANGULAR 3	8 = OVAL 4 = ROUNDED	
1 - SMC 3 = WRI	OOTH 2 - DIMPLED	Surface: 1 - SHINY	2 = DULL
Color Pattern.	1 = MONOCOLOR 2 = MOTTLE	ED 3 = STRIPED 4 = DOTTED	
Primary Color: Secondary Color:		AM & GREEN 3 = LIGHT GREEN 6 GREEN 7 = YELLOW 8 = BROW	
1 Hilum Floor Color:	1 - WHITE 2 = TAN 3 BLACK	Cotyledon Color: 1 = GREE	EN 2 = YELLOW 3 - ORANG
2 5 GRAMS PER 100	SEEDS		
10. DISEASE: (0 = Not Tested	1: 1 = Susceptible: 2 = Resistant)		
FUSARIUM WILT		NEAR-WILT	DOWNY MILDEW
1 ASCOCHYTA BLIGH	(Т	1 POWDERY MILDEW	0 BACTERIAL BLIGHT
0 MOSAIC		0 PEA ENATION MOSAIC	O YELLOW BEAN MOSAIC
OTHER (Specify)			
11. INSECT: (O= Not Tested;	1 = Susceptible: 2 = Resistant)		
0 APHIOS		OTHER (Specify)	
12. INDICATE WHICH VARIE	TY MOST CLOSELY RESEMBLES T	THAT SUBMITTED	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leatiness		Frush Seed Color	
List Color		Mature Seed Color	
Pod Color		Seed Shape	
COMMENTS:		Plant Habit	

(HM LPGS 470 14 (8 80) (REVERSE)

APPENDIX OBJECTIVE DESCRIPTION OF VARIETY PEA (Pisum sativum)

Size: 1=Small 2=Medium 3=Large Please provide example varieties of similar specified size or check varieties and stipule size.	Variety Name or T	emporary Designat	tion: 'Grande'			
Color: 1=Light-Green 2=Medium-Green 3=Dark-Green 4=Blue-Green 5=Yellow-Green 6=Other Please provide example varieties of similar specified color or check varieties and stipule color. Variety Name Stipule Color Variety Name Stipule Color Size: 1=Small 2=Medium 3=Large Please provide example varieties of similar specified size or check varieties and stipule size. Variety Name Stipule Size Variety Name Stipule Size Express Variety Name Stipule Size Variety Name Stipule Size Express OTHER CHARACTERISTICS: Describe other characteristics that may aid in identification.	LEAFLET CHAR	ACTERISTICS:				
Color: 1=Light-Green 2=Medium-Green 3=Dark-Green 4=Blue-Green S=Yellow-Green 6=Other Please provide example varieties of similar specified color or check varieties and stipule color. Variety Name Stipule Color Variety Name Stipule Color Variety Name Stipule Color Size: 1=Small 2=Medium 3=Large Please provide example varieties of similar specified size or check varieties and stipule size. Variety Name Stipule Size Express Variety Name Stipule Size Express OTHER CHARACTERISTICS: Describe other characteristics that may aid in identification.	3 Leaflet Type:	1=Leafless 2=Sem	ai 3=Normal			
Size: 1=Small 2=Medium 3=Large Please provide example varieties of similar specified size or check varieties and stipule size. Variety Name Stipule Size Variety Name Stipule Size Variety Name Stipule Size Stipule Size Variety Name Variety Name	Color: 1=Light-Green	2=Medium-Green				er
Please provide example varieties of similar specified size or check varieties and stipule size. Variety Name Stipule Size Variety Name Stipule Size Variety Name Stipule Size Express OTHER CHARACTERISTICS: Describe other characteristics that may aid in identification. Craude Larger Stipules Man Express	Variety Name	Stipule Color	Variety Name	Stipule Color	Variety Name	Stipule Color
Grande Larger stipules than Express	Express	1				Stipule Size
						ess
				O STATE OF THE STA		

GRANDE

EXHIBIT D

Pea Objective Description
Pisum sativum L. sensu lato
F. Applicant name and address

1.2 DENOMINATION

1.3 TYPE

Svalof Weibull AB S-268 81 Svalov, Sweden

Proposed Variety Denomination (name).... SV C 40143..pending

2. Field Reference varieties

> R1 EXPRESS

'	
	2.0 SEED CHARACTERISTICS 2.1 Shape of starch grain
	2.2 :color of cotyledon
	2.5 :black color of hilum
	2.6 :shape 1-6 irregular
	2.7 :wrinkling of cotyledon 1-9 present
	2.8 :size 3 small, 5 medium, 7 large
	3.0 PLANT CHARACTERISTICS 3.1 :stem fasciation 1 absent, 9 present
	3.2 :color 1 yg, 2 lg, 3 blue or dk green
	4.0 STEM CHARACTERISTICS 4.1 :vine length 3 short, 5 med., 7 long
	4.2 :node # 1 few, 5 many

	1 simple	1
	2 yellow	2
	1 absent	1
	2 spherical	1 spherical
	1 absent	1
	5 medium	4 small-medium
3,3	1 absent	1
	2 light green	3 dark green
	7 long	5 medium
	4	4

5.0 LEAF CHARACTERISICS 5.1 :presence of leaflets 1 abs, 9 present		
5.1 .presence of leanets 1 abs, 5 present	9 present	9
5.2: # leaflets max. 1 four, 2 six, 3 eight	1 four	1
5.3 :size 3 small, 7 large	5 medium	3 small
5.5 :waxiness 1 absent, 9 present	9 present	9
6.0 STIPULE CHARACTERISTICS		
6.1 :development 1 rudimentary, 2 normal	2 normal	2
6.2 :length 3 short, 5 medium, 7 long	5 medium	5
6.3 :max. width 3 narrow, 5 med, 7 broad	5 medium	5
6.5 :flecking 1 absent, 9 present	9 present	9
6.6 :max. density of flecking 3 sparse, 5 med., 7 dense	3 sparse	5 medium
7.0 FLOWERING 7.1 time of flowering 3 early, 5 medium, 7 late		į.
7.3 Max.# flrs/node 1 one, 2 one-two, 3 two, 4 two-three	5 medium ee	5
5 three, 6 three-four, 7 > four	2 one-two	2
7.5 :color of standard 1 cream, 3 white	3 white	3
7.6 :width of standard 3 narrow, 7 broad	7 broad	7

8.0 POD CHARACTERISTICS		
8.1 :length 3 short, 5 medium, 7 long	5 medium	5
8.2 :max. width 3 narrow, 5 medium, 7 broad	5 medium	5
8.3 :parchment 1 absent/par.abs.,9 entirely present	9 ent.present	9
8.5 :curvature 1 absent, 9 present	9 present	9
8.6 :degree of curvature 3 weak, 5 med., 7 strong	2 very weak	3 weak
8.7 :type of curvature 1 concave, 2 convex	1 concave	1
8.8 :shape of distal part 1 pointed, 2 blunt	2 blunt	2
8.9 :color 1 yellow, 2 lgt green, 3 dk green, 4 purple	2 light green	2
8.13 number of ovules/seeds 3 few, 5 med., 7 many	7 many	7
8.14 :color of immature seed 1 pale green, 2 dk green	1 pale green	1
9.0 TIME OF MATURITY 3 early, 5 med., 7 late	6 med-late	6

10.0 REACTION TO DISEASES 1 resis, 2 tolerar 10.2 Mycosphaerella blight*	nt, 3 suscep.	
10.2 Mycospitaerella bligitt	3 susceptible	3
10.5 Powdery mildew*	3 susceptible	3
11.0 COOKING QUALITY*	color(1-5 poor)	
	3.1 granulation(1-5 poor)	3.1
	2.8 viscosity (1 high-24 low)	3.2
	23.7	21.6
12.0 PROTEIN CONTENT (%)*	23.8	24.3
14.0 Kind & % deviates a) acceptable variants	NONE	
b) acceptable off-types	NONE	
15.0 Distinguishing key #	2.8, 3.2, 4.1, 5.3, 6.6	
* W.Coop data 91-92	2.0, 5.2, 4.1, 5.5, 6.0	

Pea Objective Description

SV C 40143

Continued

16.0 Additional Comments and Characteristics

SV C 40143 in comparison to Express has generally a more uniform, yellow seed colour and has a stronger seed coat, less prone to harvest damage and cracking than Express, in addition to a larger seed size (see photographs and slides).

Pea Objective description was developed in Svalöv, Sweden and confirmed and modified in two years of observations in Canada including as indicated in the Western Field Pea Co-Op 1991-1992.

1991 Western Field Pea Co-Op Data (Non-Irrigated)

Entry	Yi	eld	T.G.W.	Vine	Days to	Protein	Cool	cing Qua	ality
	kg	/ha		Length	Maturity		Colour	Gran.	Vis.
n = (stations)	(:	8)	(7)	(7)	(7)	(3)	(5)	(5)	(5)
(SV C 40143)	(Rank) (2)	2728	247	88	90	23.4	2.8	2.4	23.4
Express	(1)	2754	233	65	91	24.6	2.6	3.0	19.5

1992 Western Field Pea Co-Op Data (Non-Irrigated)

Entry		eld /ha	T.G.W.		Days to Maturity	Protein	Cook Colour	cing Qua	lity Vis.
n = (stations)	(7	7)	(6)	(7)	(6)	(3)	(6)	(6)	(6)
(SV C 40143)	(Rank) (3)	5950	238	111	102	24.1	3.4	3.2	24.0
Express	(9)	5462	220	79	103	23.9	3.5	3.4	23.7

Two Year Table

Entry	Yield kg/ha	T.G.W.		Days to Maturity	Protein	Cook Colour	ing Qua Gran.	llity Vis.
n = (stations)	(15)	(13)	(14)	(13)	(6)	(11)	(11)	(11)
(SV C 40143)	4339	243	100	96	23.8	3.1	2.8	23.7
Express	4108	227	72	97	24.3	3.1	3.2	21.6

REVISED NOVEMBER 5, 1997 REPRODUCE LOCALLY. Include form number and date on all reproductions. FORM APPROVED - OMB NO. 0581-0055 **EXPIRES: 12-31-96** U.S. DEPARTMENT OF AGRICULTURE The following statements are made in accordance with the Privacy Act of AGRICULTURAL MARKETING SERVICE 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995 . SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE Application is required in order to determine if a plant variety protection **EXHIBIT E** certificate is to be issued (7 U.S.C. 2421). Information is held confidential STATEMENT OF THE BASIS OF OWNERSHIP until certificate is issued (7 U.S.C. 2426). 1. NAME OF APPLICANT(S) 2. TEMPORARY DESIGNATION 3. VARIETY NAME OR EXPERIMENTAL NUMBER Svalof Weibull AB SV C 40143 GRANDE 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 5. TELEPHONE (include area code) 6. FAX (include area code) 705-324-3293 705-324-2550 SE-268 81 7. PVPO NUMBER Svalov, SWEDEN 8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. NO 9. Is the applicant (individual or company) a U.S. national or U.S. based company? XX NO If no, give name of country SWEDEN YES 10. Is the applicant the original breeder? If no, please answer the following: YES NO a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country YES NO b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of country 11. Additional explantion on ownership (If needed, use reverse for extra space): Svalof Weibull AB is the breeder and owner of the Pisum sativum Field Pea variety, GRANDE, tested as experimental designation SV C 40143. PLEASE NOTE: Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria: 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species. 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by

- nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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